4.5.5 BURN-IN: ALL UNITS SHALL BE SUBJECTED TO 20 POWER ON-OFF CYCLES CONSISTING OF 15 MINUTES WITH POWER APPLIED AND 30 MINUTES WITHOUT POWER APPLIED AT ROOM AMBIENT TEMPERATURE. IN ADDITION, ALL UNITS SHALL BE ENERGIZED FOR A MINIMUM OF 160 HOURS WITH A 50 OHM ±10% LOAD AT A TEMPERATURE OF 80° ±5°C. OPERATING VOLTAGES SHALL BE 20 ±1 VDC FOR V_1 AND 15 ±1 VDC FOR V_2.

4.5.6 THERMAL SHOCK: ALL UNITS, NON-OPERATING, SHALL BE SUBJECTED TO 25 THERMAL CYCLES FROM -50 ±5°C TO +90 ±5°C WITH A 1/2 HOUR MINIMUM DWELL AT EACH TEMPERATURE. THE TRANSITION TIME FROM COLD TO HOT AND HOT TO COLD SHALL BE LESS THAN 15 MINUTES. UNITS SHALL BE NON-OPERATING THROUGHOUT THIS TEST.

4.5.7 ALTITUDE: UNITS, NON-OPERATING, SHALL BE TESTED IN ACCORDANCE WITH MIL-O-55310 AND MIL-STD-202, TEST CONDITION C, EXCEPT ALTITUDE SHALL BE 80,350 FEET.

4.5.8 MOISTURE RESISTANCE: UNITS, NON-OPERATING, SHALL BE TESTED IN ACCORDANCE WITH MIL-O-55310.

5.0 PREPARATION FOR DELIVERY: THE PARTS SHALL BE PACKAGED IN A MANNER THAT WILL AFFORD ADEQUATE PROTECTION AGAINST CONTAMINATION, CORROSION, DETERIORATION AND PHYSICAL DAMAGE DURING SHIPMENT AND STORAGE. PARTS SHALL BE PACKAGED SO THEY WILL BE EASILY ACCESSIBLE WITHOUT DAMAGING THE PARTS.

6.0 NOTES: THE INFORMATION CONTAINED IN THIS SECTION IS FOR REFERENCE ONLY.

6.1 IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM(S).

6.2 DISCLAIMER: IT IS THE INTENT OF THIS DRAWING THAT THE VENDOR PART NUMBER(S) LISTED HEREIN MEET THE REQUIREMENTS SPECIFIED HEREIN. IF THE SUPPLIER OF THE PART WHEN REVIEWING THIS DRAWING DISCOVERS A DISCREPANCY IN THE REQUIREMENTS, IT IS THE SUPPLIER'S RESPONSIBILITY TO NOTIFY THE PROCURING ACTIVITY FOR CORRECTIVE ACTION.

6.3 HAC APPLICABILITY:

THIS ITEM IS UNDER HAC FOR THE FOLLOWING PROGRAMS:

NAVSTAR GPS

THIS DEVICE IS UNDER HAC FOR THOSE PROGRAMS LISTED ABOVE. OTHER USING PROGRAMS DO NOT REQUIRE EVALUATION BY THE SURVIVABILITY ENGINEERING ACTIVITY PRIOR TO SUBSTITUTION OF THIS DEVICE.

6.4 UNIT OF MEASURE: PIECES (PC)

TABLE I

DASH NO'S, DESCRIPTION AND VENDOR PART NUMBERS

DASH NO.	DESCRIPTION	MCCOY ELEC. PART NUMBER*	PIEZO TECH. PART NUMBER*
-010	FREQUENCY STANDARD WITH AN ADJUSTMENT PER 3.1.5.1	MC815X4-003W	X01048
-020	FREQUENCY STANDARD WITHOUT AN ADJUSTMENT PER 3.1.5.2	277-0599-020	277-0599-020

* SEE 6.2

TABLE II

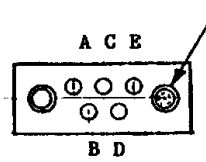
ELECTRICAL, MECHANICAL, AND ENVIRONMENTAL CHARACTERISTICS

REQUIREMENT	PARAGRAPH (HEREIN)
INPUT POWER	3.1.1.3
INPUT CURRENT	3.1.1.5
FREQUENCY	3.1.2.1
RF OUTPUT POWER	3.1.2.2
WARM-UP TIME	3.1.3
SHORT TERM STABILITY	3.1.4.5
HARMONIC AND SUBHARMONIC OUTPUT	3.1.6.1
SPURIOUS OUTPUT	3.1.6.2
VIBRATION SIDEBANDS (WORST CASE AXIS)	3.1.6.4
BIT OUTPUT VOLTAGE	3.1.7.1.1 AND 3.1.7.2.1
PHYSICAL DIMENSIONS	3.2.1
WEIGHT	3.2.2
HERMETIC SEAL	4.5.4

DWG NO.	SH

NOTES:

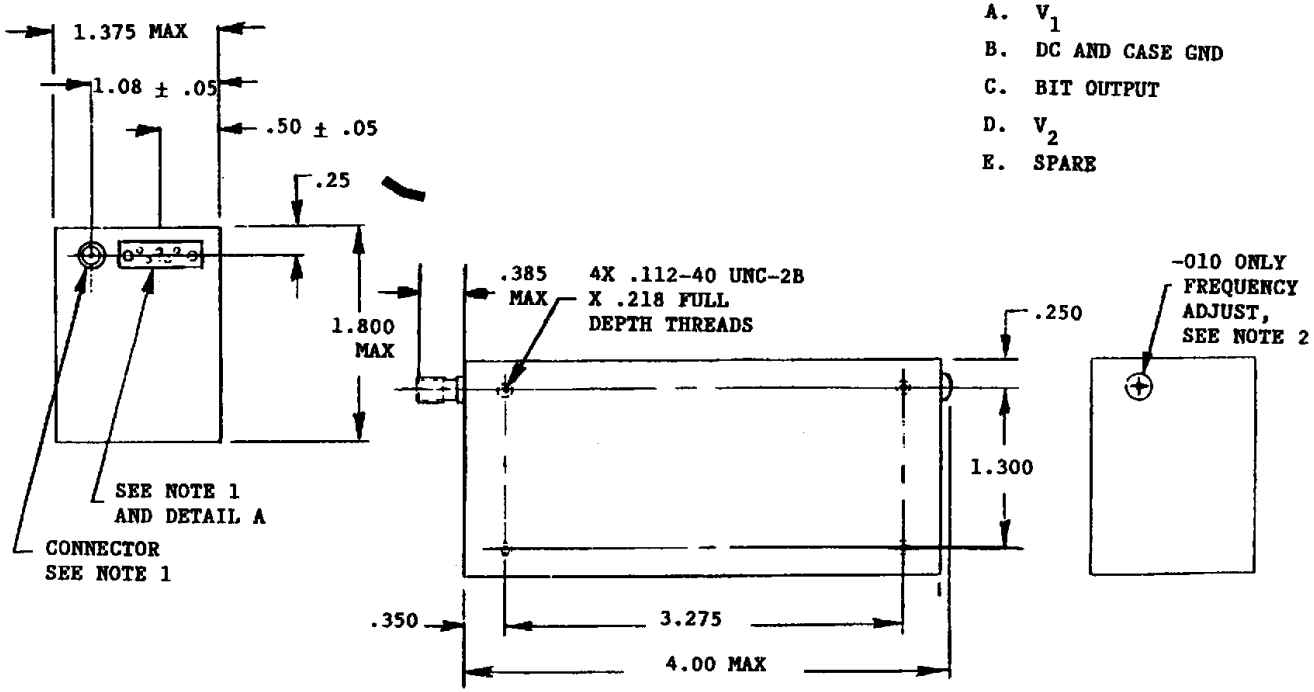
1. REFER TO 3.2.6 FOR CONNECTOR INFORMATION.
2. FREQUENCY ADJUST MAY BE LOCATED ANYWHERE ON THIS FACE. FREQUENCY ADJUST SCREW MUST BE COVERED BY A SEAL SCREW.



PIN FUNCTION

DETAIL A

A. V_1
B. DC AND CASE GND
C. BIT OUTPUT
D. V_2
E. SPARE



MECHANICAL CONFIGURATION

FIGURE 1

INTERPRET ALL DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ANSI Y14.5M-1982

UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES: TOL ON: ANGLES: ±1.0° DECIMALS: .XX = ±.02, .XXX = ±.008

Rockwell International
Collins Government Avionics Division
Avionics Group
Cedar Rapids, Iowa 52498

SIZE	CAGE	DWG NO.	REV
A	13499	277-0599	LTR K

SCALE		SHEET
NONE	5403p/0184p	15